

## Astronomy LS 1 Back to the Big Question

How can you know if objects in space will collide?

Name \_\_\_\_\_

Hour \_\_\_\_\_ Date \_\_\_\_\_

Group's Solar System Object: \_\_\_\_\_

1. Using available resources, gather the following information about the solar-system object assigned to your group.

|                                      |  |
|--------------------------------------|--|
| Size                                 |  |
| Mass                                 |  |
| Composition                          |  |
| Distance from the Sun                |  |
| How & when the object was discovered |  |
| Other interesting information        |  |

2. Determine among your group members what you think would happen if your solar-system object were to collide with Earth. List your ideas and the supporting evidence. Your evidence is the information you have gathered about your solar-system object and the evidence from past collisions that you have studied in this Learning Set.

3. Determine among your group members whether you think your object is likely to collide with Earth in the next 30 years. List your ideas and the supporting evidence.

4. Prepare a poster to share with the class. Be sure to include a picture of your solar-system object, the information you gathered, and your answers to the two questions. Make sure you include the evidence used for your answers. Be prepared to explain how your group reached your conclusions and why.

**Communicate:** Follow your teacher's directions to communicate your findings.

**Update the Project Board**